RMS 7170

7U 17” Rackmount LCD Monitor

User Manual

RMS 7170, 7U 17” Rackmount LCD Monitor

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661 Brea Canyon Rd., Suite 3
Walnut, CA 91789
tel: 909.598.7388, fax: 909.598.0218, www.acnodes.com

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Contents

Chapter 1 **Getting Started**

1.1 Important Safeguards.....1
1.2 Regulatory Notice.....2
1.3 Before Installation.....3
1.4 Unpacking.....3

Chapter 2 **RMS7170**

2.1 Package Contents.....4
2.2 Structure Diagram.....5
2.3 Specifications.....6-7
2.4 Installation.....8-9
2.5 Connection.....10

Chapter 3 **Operation**

3.1 On-screen Display Operation.....11
3.2 On-screen Menu.....12

Chpater 4 **Optional Specification**

4.1 DVI-D Option.....13
4.2 BNC+S-Video Option.....14
4.3 Audio Option.....15
4.4 Touchscreen Options.....16-17
4.5 Front NEMA/ IP65 Option.....18
4.6 DC Power Options.....19

Chapter 5 **Troubleshooting**.....20

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1.1 Important Safeguards

Chapter 1

Please read all these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - » Repair or attempted repair by anyone not authorized by us.
  - » Any damage of the product due to shipment.
  - » Removal or installation of the product.
  - » Causs external to the product, such as electric power fluctuation or failure.
  - » Use of supplies or parts not meet our specifications.
  - » Normal wear and tear
  - » Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

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1.2 Regulatory Notice

Legal Information

First English printing, October 2002
Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equpiment.

Safety Instructions

» Unplud equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
» Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-condition environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
» When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
» When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating
» Arrange the equipment's power cord in such a way that others won't trip or fall over it.
» If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical rating label. The voltage rating on the cord should be higher than the one listed on the equipment's rating label.
» Observe all precautions and warnings attached to the equipment.
» If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
» Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
» Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
» If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
» Re-position or relocate the receiving antenna
» Increase the separation between the equipment and receiver.
» Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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1.3 Before Installation

» It is very important to locate the Rackmount LCD Drawer/Display in a suitable environment.
» The surface for placing and fixing the Rackmount LCD Drawer/Display should be stable and level or mounted into suitable cabinet.
» Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
» Convenience for connecting the Rackmount LCD Drawer/Display to the related facilities should be well considered too.

1.4 Unpacking

The Rackmount LCD Drawer/Display comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately

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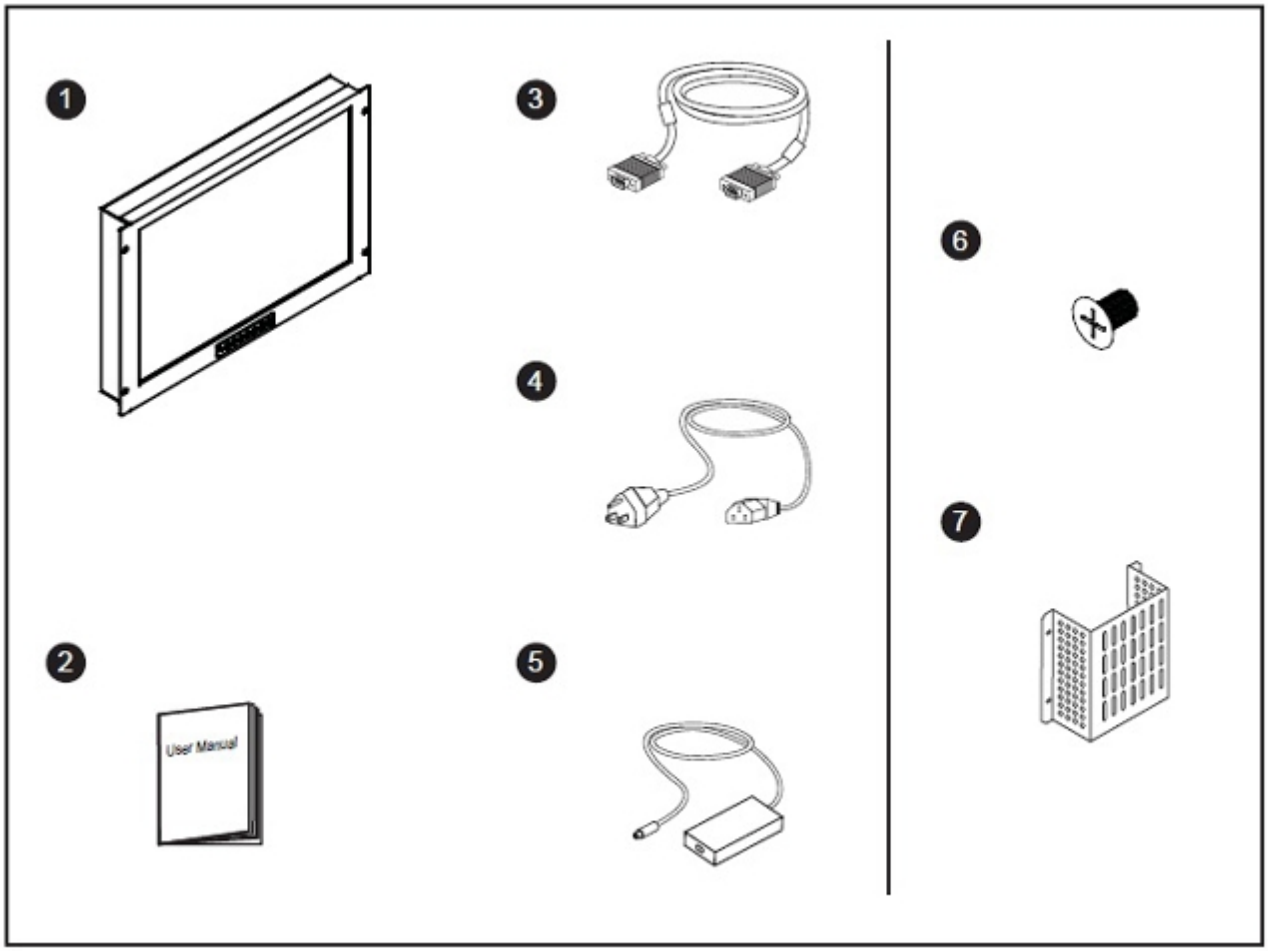
Chapter 2

2.1 Package Contents



1.Rackmount LCD display x 1 pc

2.User manual x 1 pc

3. 6’ VGA cable (male to male) x 1 pc

4. Power cord x 1 pc

5. Auto switch power adapter x 1 pc

6. M3.2*4.5mm screw x 4 pcs

7.Power adapter bracket x 1 pc

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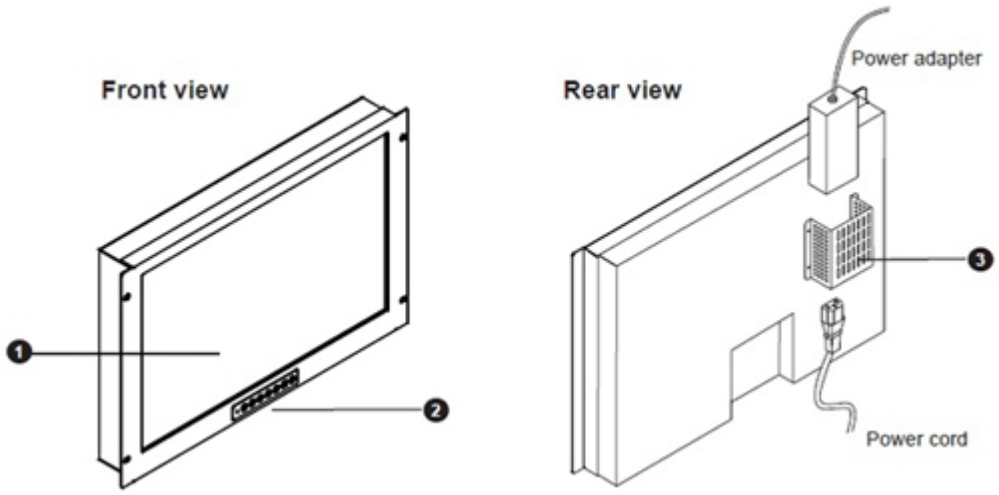
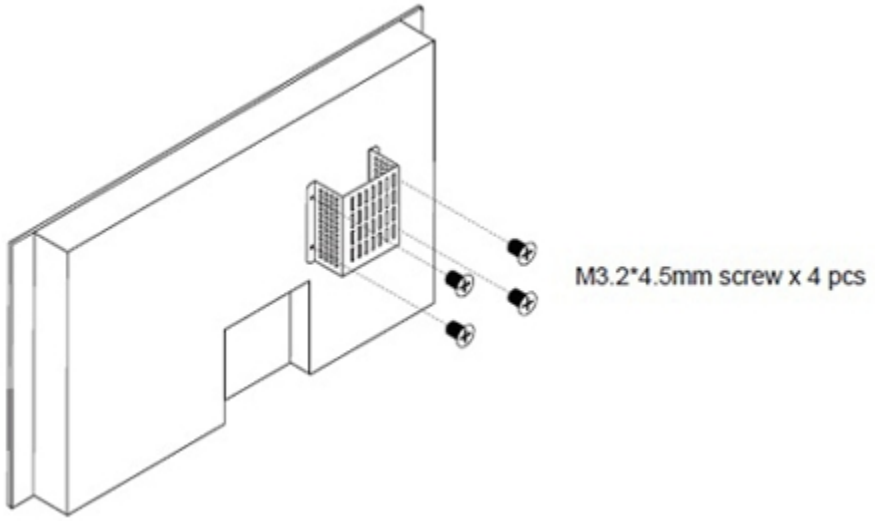
2.2 Structure Diagram



1. LCD interchangeable module kit
2. LCD membrane
3. Power adapter bracket

Power adapter bracket installation



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2.3 Specification-

RMS7170

Display Size: 17” LCD
Max. Resolution: 1152 x 900
Sun Native Resolution: 1280 x 1024
Brightness (cd/m^): 300
Color Support: 16.7M
Contrast Ratio: 1000:1
Viewing Angle (H/V): 160° x 160°
Display Area (mm): 338 x 270
Tr Response Time (ms): 1.3
LCD Panel MTBF (hrs): 50,000
Resolution:
720 x 400, 70Hz
640 x 480, 800 x 600, 1280 x 1024 60/70/72/75Hz
1024 x 768, 1152 x 864, 1280 x 720 60/70/75Hz

Standard feature:

VGA Signal Input: Analog RGB, 0.7Vp-p
Sync. Type: Separate H/V, Composite, SOG
Plug & Play DDC: EDID 1.3
Connector: DB-15 connector
Power Input: Auto-sensing 100 to 240 VAC, 50/60Hz
Power Consumption: Max. 48 Watt, Standby 5 Watt
Compatibility: Multi-platform - Mix PCs, SUNs, IBM, HPs & DELLs.

Environmental:

Operation**:** 0° to 50°C Degree
Storage: -5° to 60° Degree
Relative Humidity: 5~90%, non-condensing
Shock: 10G acceleration (11ms duration)
Vibration: 5~500Hz 1G RMS random vibration

Dimensions (W x D x H):

RMS7170: 18.9 x 2.2” x 12.25

Optional Items:

Touchscreen: Resistive & Capacitive
Audio: 35mm audio plug
NEMA4 / IP65: 4mm thickness of protective glass
Graphic Input: DVI-D, BNC, S-Video & Quad display input
DC Power: DC Power input with 12V, 24V, 48V selection

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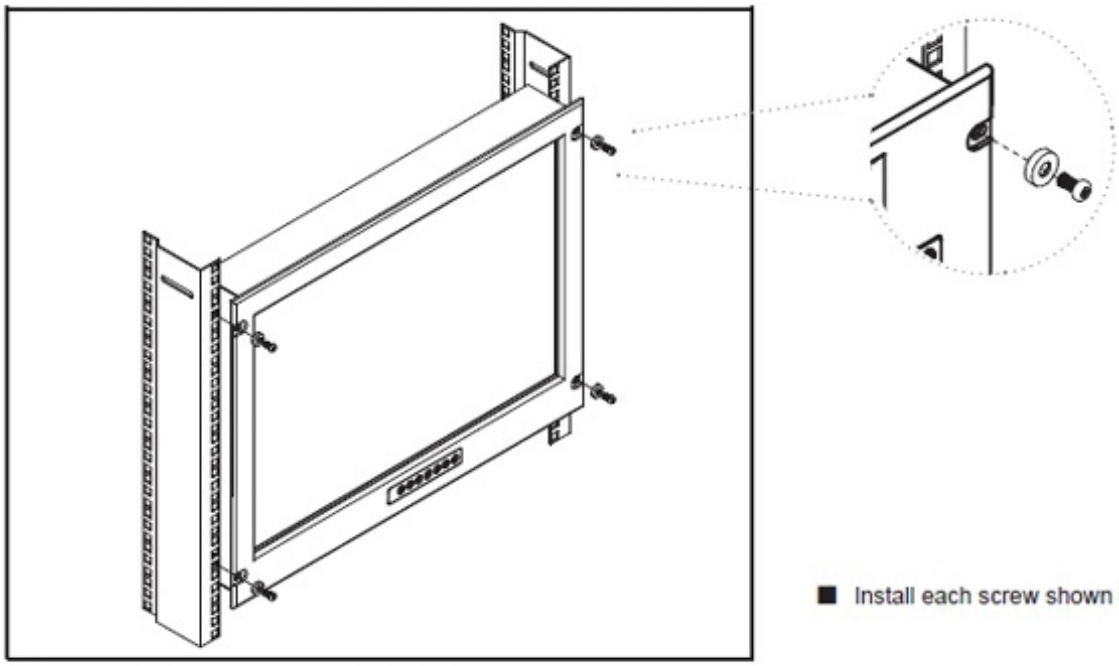
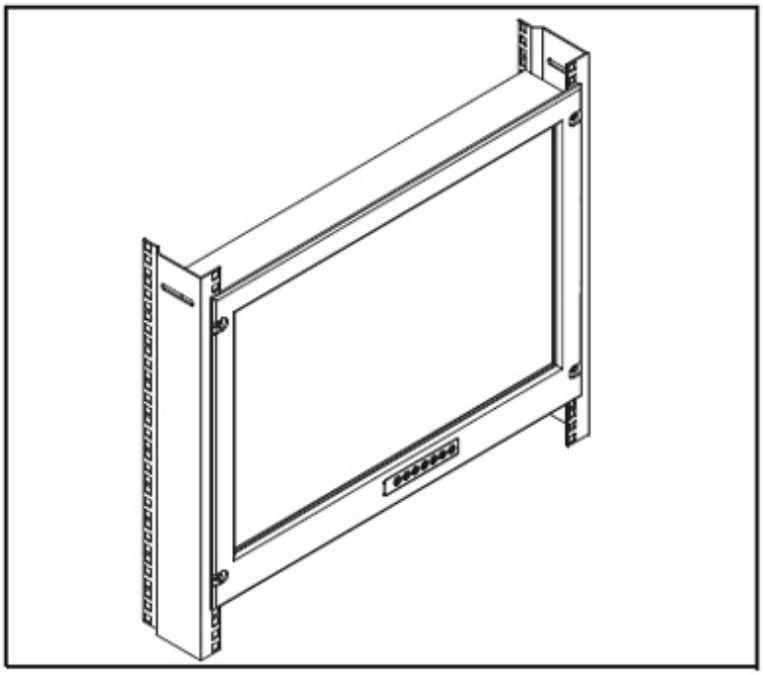
Installation:



■ Install each screw shown in **Figure 1**.

Figure 1.



■ Fix the LCD into the rack.

*** M6 screws are not provided.**

Figure 2.

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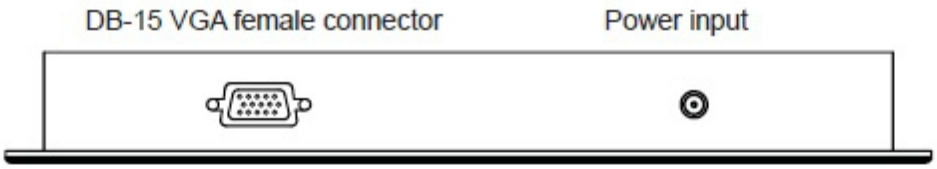
2.5 Connection



Caution : The Rackmount LCD Drawer & Display are hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage of the servers, KVM and Rackmount LCD Drawer. Before attempting to connect anything to the Rackmount LCD Drawer, we suggest turning off power to all devices before connecting them. Apply power to connected devices again only after the Rackmount LCD Drawer is receiving power. The company is not responsible for damage caused in this way.

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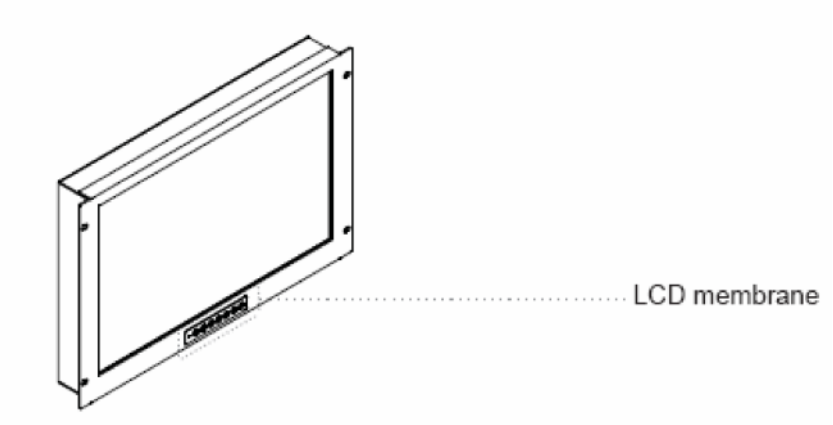
3.1 On-screen Display Operation

Chapter 3



Membrane Switch	Function
○ ● ●	Power light Green = On Orange = Power saving
⏻	Power on / off LCD
M	Display the OSD menu
◈ ◈ ◈ ◈	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ◈ for 5 seconds)
↩	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

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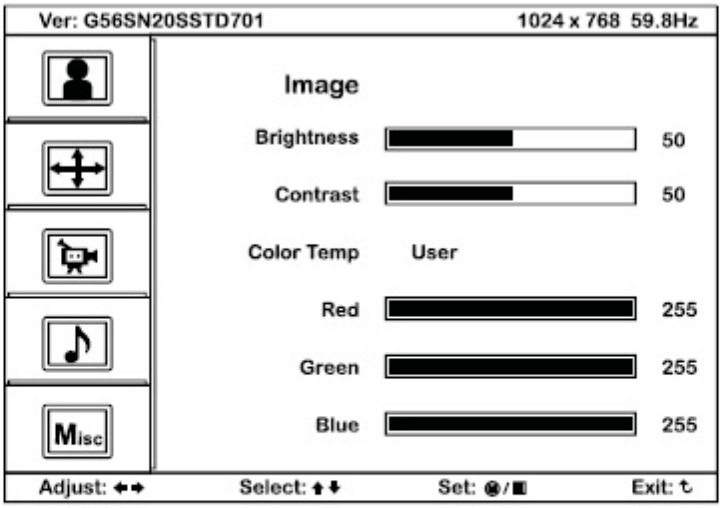
3.2 On-screen menu



OSD Configuration Page

	Image: To enter into the brightness, contrast, color temp, red, green, and blue
	Geometry: To enter into the auto adjust, H position, V position, phase and clock
	Video: To enter into the colour, tint, sharpness, noise reduction, DCDi and TV Setup
	Audio: To enter into volume, bass, treble, balance, AVL and mute
Misc	**Misc:** To enter into the language, OSD position, graphic mode, ratio, reset and timer

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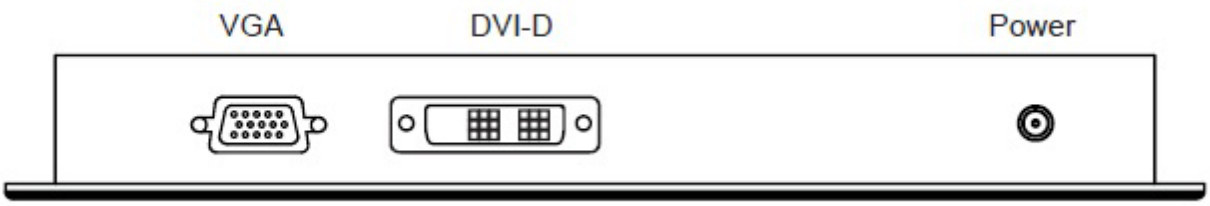
4.1 DVI-D Option



Remarks

» Package includes 1 x 6ft DVI-D cable

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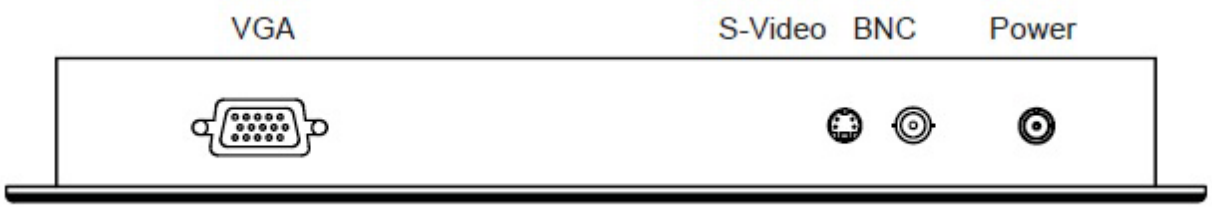
4.2 BNC+S-Video Option



Remarks

» Package includes 1 x 6ft S-Video cable

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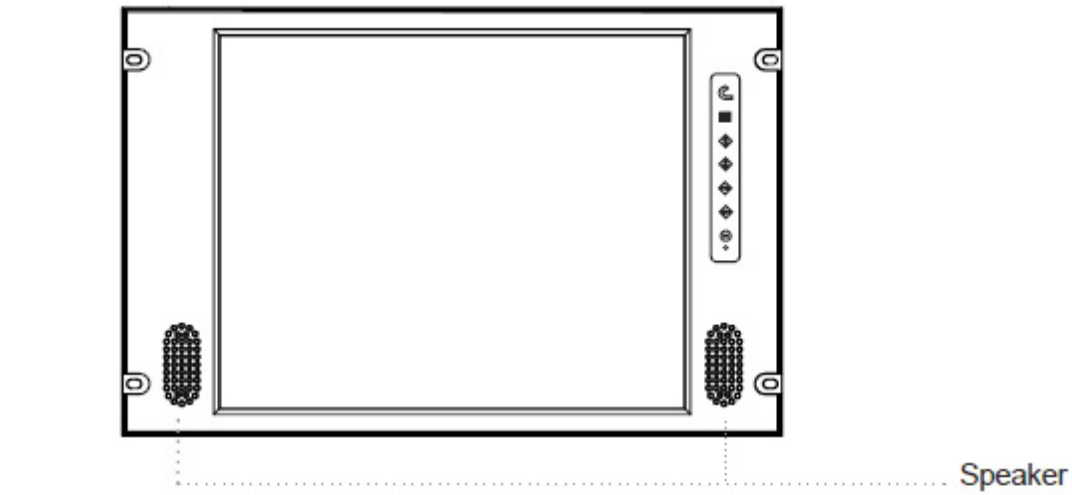
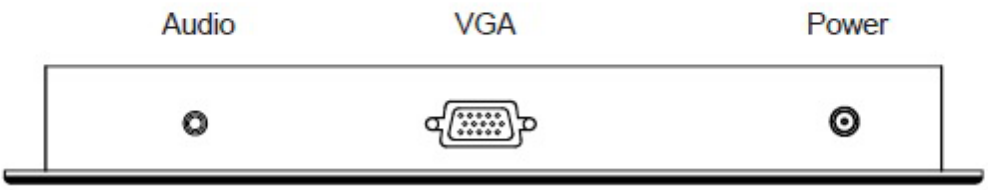
4.3 Audio Option





Remarks

» Audio input is 35mm audio plug

» The speaker is sharing the same power with LCD

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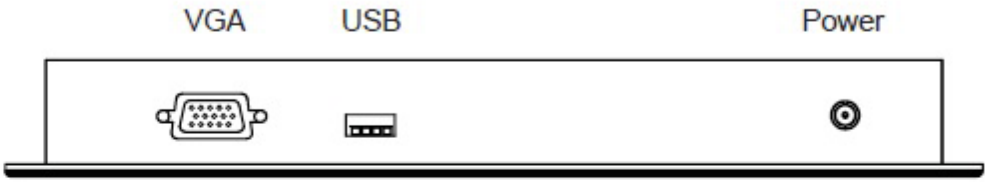
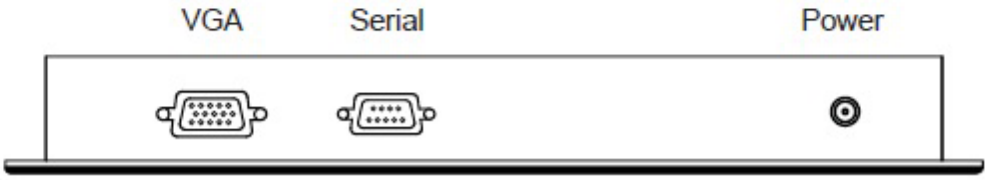
4.4 Touchscreen Options

USB interface



Serial interface



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e-Resistive

Model	-19WTRB / -19WTRS	-22WTRB / -22WTRS
Screen size	19" wide	22" wide
Interface	USB / serial	
Optical transmittance	80% ± 3%	
Surface hardness	≥3H (JIS K5400)	
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux	

e-Capacitive

Model	-19WTCB / -19WTCS	-22WTCB / -22WTCS
Screen size	19" wide	22" wide
Interface	USB / serial	
Optical transmittance	93% ± 2%	
Surface hardness	>9H Surface hardness, withstand over 300 million touches	
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux	

Remarks

» USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disk
» Serial touchscreen package includes 1 x 6ft serial cable, quick reference guideline CD disk
» For detailed information, please refer to the attached CD disk
» As the touchscreen is not made of toughened glass, please handle it carefully
» Touchscreen in other brands are available on request

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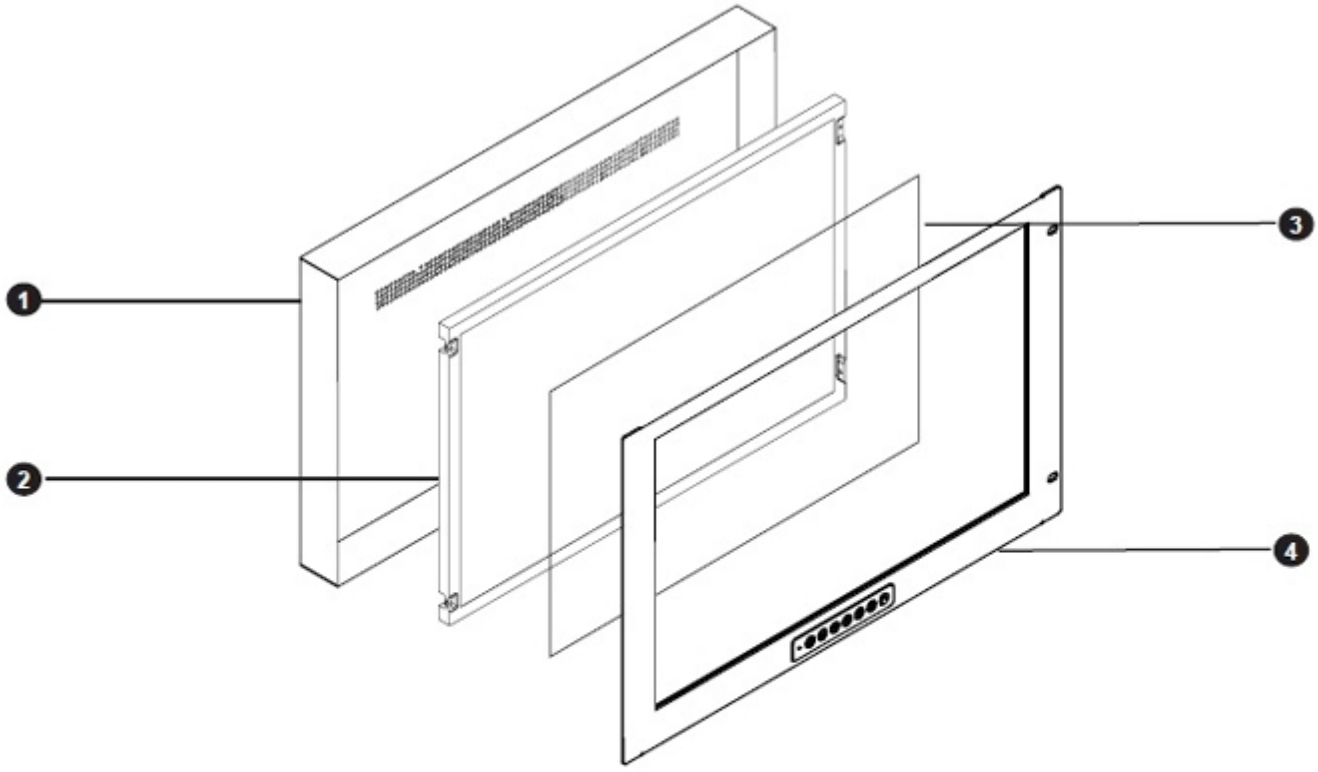
4.5 Front NEMA/IP65 Option



① Rear case
② LCD panel
③ 4mm protective glass (Front NEMA 4 / IP65 protection)
④ Aluminum front panel

Remarks

» 4mm thickness of protective glass is not toughened one, please handle it carefully

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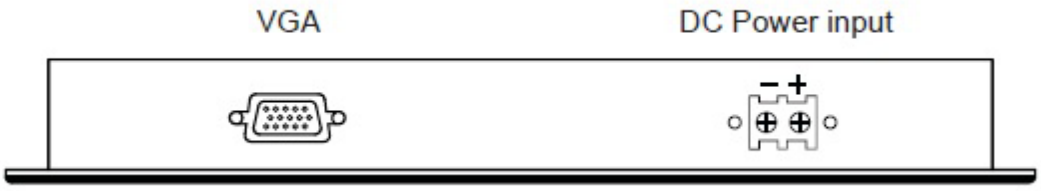
4.6 DC Power Options



Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

Remarks

- Package does not include power cord and AC power adapter

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Chapter 5

5.1 Troubleshooting

1. How do I adjust the resolution?
To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, “640 x 480”, “800 x 600”, “1024 x 768”, “1152 x 864”, “1280 x 1024”, are determined by the display card in your computer.

2. Is interference signal appeared on LCD normal when shutting down the computer?
In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manualy.

3. The mambrane power light is not ON
Press the power On / Off on LCD membrane to check if the monitor is in the ON mode.
Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

4. Screen image is not center or sized properly

Press the button for two seconds to automatically adjust the image.
Adjust the H-position and V-position settings via On-screen menu.

For SP series LCD Drawer

1. How can I adjust the monitor resolution to 1152 x 900 for SUN Micro system?
The S solution LCD drawer will automatically detect the 1152 x 900 resolution, so no user configuration should be necessary.

2. How do I adjust the resolution in MS Windows operation system?
To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, “640 x 480”, “800 x 600”, “1024 x 768”, “1152 x 864”, “1280 x 1024”, are determined by the display card in your computer.

3. Is the LCD drawer hot-pluggable?
The LCD drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD receives power.

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